PCT10

ENTERED

```
 3 <110> APPLICANT: VON BERGEN, Martin
 4         BIERNAT, Jacek
 5         MANDELKOW, Eva-Maria
 6         MANDELKOW, Eckhard
 8 <120> TITLE OF INVENTION: A MINIMAL TAU PEPTIDE FOR THE NUCLEATION OF PAIRED HELICAL
FRAGMENTS
10 <130> FILE REFERENCE: 029976/0101
12 <140> CURRENT APPLICATION NUMBER: US 10/070611
13 <141> CURRENT FILING DATE: 2000-09-11
15 <150> PRIOR APPLICATION NUMBER: PCT/EP00/08863
16 <151> PRIOR FILING DATE: 2000-09-11
18 <150> PRIOR APPLICATION NUMBER: EP 99117805.4
19 <151> PRIOR FILING DATE: 1999-09-09
21 <160> NUMBER OF SEQ ID NOS: 62
23 <170> SOFTWARE: PatentIn version 3.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 125
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
32 Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys
33 1               5                   10                  15
36 Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val
37              20                  25                  30
40 Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys
41           35                  40                  45
44 Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln
45      50                  55                  60
48 Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly
49 65                  70                  75                  80
52 Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val
53              85                  90                  95
56 Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly
57              100                 105                 110
60 Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
61           115                 120                 125
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 31
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 2
71 Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys
72 1               5                   10                  15
75 Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys
```

RAW SEQUENCE LISTING   DATE: 11/06/2002
PATENT APPLICATION: US/10/070,611   TIME: 14:50:51

Input Set : A:\vonbergen.txt
Output Set: N:\CRF4\11062002\J070611.raw

```
76            20                 25                    30
79 <210> SEQ ID NO: 3
80 <211> LENGTH: 31
81 <212> TYPE: PRT
82 <213> ORGANISM: Homo sapiens
84 <400> SEQUENCE: 3
86 Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys
87 1               5                 10                    15
90 Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser
91            20                 25                    30
94 <210> SEQ ID NO: 4
95 <211> LENGTH: 31
96 <212> TYPE: PRT
97 <213> ORGANISM: Homo sapiens
99 <400> SEQUENCE: 4
101 Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys
102 1              5                 10                    15
105 Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
106            20                 25                    30
109 <210> SEQ ID NO: 5
110 <211> LENGTH: 32
111 <212> TYPE: PRT
112 <213> ORGANISM: Homo sapiens
114 <400> SEQUENCE: 5
116 Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
117 1              5                 10                    15
120 Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
121            20                 25                    30
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 43
126 <212> TYPE: PRT
127 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 6
131 Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Val Tyr Lys
132 1              5                 10                    15
135 Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn
136            20                 25                    30
139 Ile His His Lys Pro Gly Gly Gly Gln Val Glu
140       35                 40
143 <210> SEQ ID NO: 7
144 <211> LENGTH: 6
145 <212> TYPE: PRT
146 <213> ORGANISM: Homo sapiens
148 <400> SEQUENCE: 7
150 Val Gln Ile Ile Asn Lys
151 1               5
154 <210> SEQ ID NO: 8
155 <211> LENGTH: 6
156 <212> TYPE: PRT
```

RAW SEQUENCE LISTING   DATE: 11/06/2002
PATENT APPLICATION: US/10/070,611   TIME: 14:50:51

Input Set : A:\vonbergen.txt
Output Set: N:\CRF4\11062002\J070611.raw

```
157 <213> ORGANISM: Homo sapiens
159 <400> SEQUENCE: 8
161 Val Gln Ile Val Tyr Lys
162 1               5
165 <210> SEQ ID NO: 9
166 <211> LENGTH: 8
167 <212> TYPE: PRT
168 <213> ORGANISM: Homo sapiens
170 <400> SEQUENCE: 9
172 Gly Lys Val Gln Ile Val Tyr Lys
173 1               5
176 <210> SEQ ID NO: 10 .
177 <211> LENGTH: 94
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapiens
181 <400> SEQUENCE: 10
183 Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys
184 1               5                   10                  15
187 Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val
188             20                  25                  30
191 Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys
192         35                  40                  45
195 Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu
196     50                  55                  60
199 Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile
200 65                  70                  75                  80
203 Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
204                 85                  90
207 <210> SEQ ID NO: 11
208 <211> LENGTH: 94
209 <212> TYPE: PRT
210 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 11
214 Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys
215 1               5                   10                  15
218 Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Asn
219             20                  25                  30
222 Ala Glu Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys
223         35                  40                  45
226 Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu
227     50                  55                  60
230 Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile
231 65                  70                  75                  80
234 Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
235                 85                  90
238 <210> SEQ ID NO: 12
239 <211> LENGTH: 91
240 <212> TYPE: PRT
241 <213> ORGANISM: Homo sapiens
```

```
243 <400> SEQUENCE: 12
245 Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys
246 1                5                10               15
249 Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val
250                 20                25               30
253 Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
254         35                40               45
257 Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser
258     50                55               60
261 Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
262 65                70               75               80
265 Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
266                 85                90
269 <210> SEQ ID NO: 13
270 <211> LENGTH: 94
271 <212> TYPE: PRT
272 <213> ORGANISM: Homo sapiens
274 <400> SEQUENCE: 13
276 Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys
277 1                5                10               15
280 Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val
281                 20                25               30
284 Gln Ile Val Glu Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys
285         35                40               45
288 Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu
289     50                55               60
292 Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile
293 65                70               75               80
296 Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
297                 85                90
300 <210> SEQ ID NO: 14
301 <211> LENGTH: 9
302 <212> TYPE: PRT
303 <213> ORGANISM: Homo sapiens
305 <400> SEQUENCE: 14
307 Val Asp Leu Ser Lys Val Thr Ser Lys
308 1                5
311 <210> SEQ ID NO: 15
312 <211> LENGTH: 18
313 <212> TYPE: PRT
314 <213> ORGANISM: Homo sapiens
316 <400> SEQUENCE: 15
318 Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
319 1                5                10               15
322 Gly Gly
326 <210> SEQ ID NO: 16
327 <211> LENGTH: 8
328 <212> TYPE: PRT
329 <213> ORGANISM: Homo sapiens
```

```
331 <400> SEQUENCE: 16
333 Gly Gln Val Glu Val Lys Ser Glu
334 1               5
337 <210> SEQ ID NO: 17
338 <211> LENGTH: 9
339 <212> TYPE: PRT
340 <213> ORGANISM: Homo sapiens
342 <400> SEQUENCE: 17
344 Val Asp Leu Ser Lys Val Thr Ser Lys
345 1               5
348 <210> SEQ ID NO: 18
349 <211> LENGTH: 18
350 <212> TYPE: PRT
351 <213> ORGANISM: Homo sapiens
353 <400> SEQUENCE: 18
355 Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
356 1               5                   10                  15
359 Gly Gly
363 <210> SEQ ID NO: 19
364 <211> LENGTH: 8
365 <212> TYPE: PRT
366 <213> ORGANISM: Homo sapiens
368 <400> SEQUENCE: 19
370 Gly Gln Val Glu Val Lys Ser Glu
371 1               5
374 <210> SEQ ID NO: 20
375 <211> LENGTH: 7
376 <212> TYPE: PRT
377 <213> ORGANISM: Homo sapiens
379 <400> SEQUENCE: 20
381 Gln Thr Ala Pro Val Pro Met
382 1               5
385 <210> SEQ ID NO: 21
386 <211> LENGTH: 6
387 <212> TYPE: PRT
388 <213> ORGANISM: Homo sapiens
390 <400> SEQUENCE: 21
392 Val Glu Val Lys Ser Glu
393 1               5
396 <210> SEQ ID NO: 22
397 <211> LENGTH: 15
398 <212> TYPE: PRT
399 <213> ORGANISM: Homo sapiens
401 <400> SEQUENCE: 22
403 Leu Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys
404 1               5                   10                  15
407 <210> SEQ ID NO: 23
408 <211> LENGTH: 15
409 <212> TYPE: PRT
```

VERIFICATION SUMMARY   DATE: 11/06/2002
PATENT APPLICATION: **US/10/070,611**   TIME: 14:50:52

Input Set : **A:\vonbergen.txt**
Output Set: **N:\CRF4\11062002\J070611.raw**